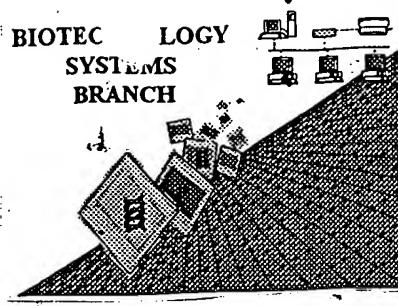# RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _____09/722,544_____

Source: _____OIPE_____

Date Processed by STIC: _____11/27/01_____

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

<u>Checker Version 3.0 can be down loaded from the USPTO website at the following address:</u>
http://www.uspto.gov/web/offices/pac/checker

RAW SEQUENCE LISTING   DATE: 11/27/2001
PATENT APPLICATION: US/09/722,544   TIME: 13:58:08

Input Set : A:\7853-224 REVISED SEQUENCE LISTING 11-21.TXT
Output Set: N:\CRF3\11212001\I722544.raw

```
    5 <110> APPLICANT: Chen, H.
    6         Freimer, N.
    8 <120> TITLE OF INVENTION: METHODS OF DIAGNOSING NEUROPSYCHIATRIC DISORDERS
   10 <130> FILE REFERENCE: 7853-224
   12 <140> CURRENT APPLICATION NUMBER: 09/722,544
C--> 13 <141> CURRENT FILING DATE: 2000-11-18
   15 <150> PRIOR APPLICATION NUMBER: 09/236,134
   16 <151> PRIOR FILING DATE: 1999-01-22
   18 <150> PRIOR APPLICATION NUMBER: 60/078,044
   19 <151> PRIOR FILING DATE: 1998-03-16
   21 <150> PRIOR APPLICATION NUMBER: 60/088,312
   22 <151> PRIOR FILING DATE: 1998-06-05
   24 <150> PRIOR APPLICATION NUMBER: 60/106,056
   25 <151> PRIOR FILING DATE: 1998-10-28
   27 <160> NUMBER OF SEQ ID NOS: 33
   29 <170> SOFTWARE: FastSEQ for Windows Version 3.0
```

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

```
  253 <210> SEQ ID NO: 3
  254 <211> LENGTH: 1957
  255 <212> TYPE: DNA
  256 <213> ORGANISM: Homo sapiens
  258 <220> FEATURE:
  259 <221> NAME/KEY: CDS
  260 <222> LOCATION: (241)...(1671)
E--> 262 <400> SEQUENCE: 1
```

> Seq. nos. differ!

```
  263 tgcgtcacct gcaggcccgg gccgcggggt tggtttccac cctggaggtt gctgacaccc      60
  264 tgtgccctcg gctgacttcc agccggtggc acagacgcct ccaggggca gcactcaagc      120
  265 gcatcttagg aatgacagag ttgcgtccct ctckgttgcc aggctggagt tcagtggcat      180
  266 gttcwtagct cactgaagcc tcaaattcct gggttcaagt gaccctccya cctcagcccc      240
  267 atg agg acc tgg gac tac agt aac agc ggg aac atg aag ccg cca ctc      288
  268 Met Arg Thr Trp Asp Tyr Ser Asn Ser Gly Asn Met Lys Pro Pro Leu
  269  1               5                  10                  15
  271 ttg gtg ttt att gtg tgt ctg ctg tgg ttg aaa gac agt cac tgc gca      336
  272 Leu Val Phe Ile Val Cys Leu Leu Trp Leu Lys Asp Ser His Cys Ala
  273              20                  25                  30
  275 ccc act tgg aag gac aaa act gct atc agt gaa aac ctg aag agt ttt      384
  276 Pro Thr Trp Lys Asp Lys Thr Ala Ile Ser Glu Asn Leu Lys Ser Phe
  277              35                  40                  45
  279 tct gag gtg ggg gag ata gat gca gat gaa gag gtg aag aag gct ttg      432
  280 Ser Glu Val Gly Glu Ile Asp Ala Asp Glu Glu Val Lys Lys Ala Leu
  281          50                  55                  60
  283 act ggt att aag caa atg aaa atc atg atg gaa aga aaa gag aag gaa      480
  284 Thr Gly Ile Lys Gln Met Lys Ile Met Met Glu Arg Lys Glu Lys Glu
  285  65                  70                  75                  80
```

RAW SEQUENCE LISTING   DATE: 11/27/2001
PATENT APPLICATION: US/09/722,544   TIME: 13:58:08

Input Set : A:\7853-224 REVISED SEQUENCE LISTING 11-21.TXT
Output Set: N:\CRF3\11212001\I722544.raw

```
287 cac acc aat cta atg agc acc ctg aag aaa tgc aga gaa gaa aag cag     528
288 His Thr Asn Leu Met Ser Thr Leu Lys Lys Cys Arg Glu Glu Lys Gln
289                 85                  90                  95
293 gag gcc ctg aaa ctt ctg aat gaa gtt caa gaa cat ctg gag gaa gaa     576
294 Glu Ala Leu Lys Leu Leu Asn Glu Val Gln Glu His Leu Glu Glu Glu
295                 100                 105                 110
297 gaa agg cta tgc cgg gag tct ttg gca gat tcc tgg ggt gaa tgc agg     624
298 Glu Arg Leu Cys Arg Glu Ser Leu Ala Asp Ser Trp Gly Glu Cys Arg
299             115                 120                 125
301 tct tgc ctg gaa aat aac tgc atg aga att tat aca acc tgc caa cct     672
302 Ser Cys Leu Glu Asn Asn Cys Met Arg Ile Tyr Thr Thr Cys Gln Pro
303         130                 135                 140
305 agc tgg tcc tct gtg aaa aat aag att gaa cgg ttt ttc agg aag ata     720
306 Ser Trp Ser Ser Val Lys Asn Lys Ile Glu Arg Phe Phe Arg Lys Ile
307 145                 150                 155                 160
309 tat caa ttt cta ttt cct ttc cat gaa gat aat gaa aaa gat ctc ccc     768
310 Tyr Gln Phe Leu Phe Pro Phe His Glu Asp Asn Glu Lys Asp Leu Pro
311                 165                 170                 175
313 atc agt gaa aag ctc att gag gaa gat gca caa ttg acc caa atg gag     816
314 Ile Ser Glu Lys Leu Ile Glu Glu Asp Ala Gln Leu Thr Gln Met Glu
315                 180                 185                 190
317 gat gtg ttc agc cag ttg act gtg gat gtg aat tct ctc ttt aac agg     864
318 Asp Val Phe Ser Gln Leu Thr Val Asp Val Asn Ser Leu Phe Asn Arg
319             195                 200                 205
321 agt ttt aac gtc ttc aga cag atg cag caa gag ttt gac cag act ttt     912
322 Ser Phe Asn Val Phe Arg Gln Met Gln Gln Glu Phe Asp Gln Thr Phe
323         210                 215                 220
325 caa tca cat ttc ata tca gat aca gac cta act gag cct tac ttt ttt     960
326 Gln Ser His Phe Ile Ser Asp Thr Asp Leu Thr Glu Pro Tyr Phe Phe
327 225                 230                 235                 240
329 cca gct ttc tct aaa gag ccg atg aca aaa gca gat ctt gag caa tgt    1008
330 Pro Ala Phe Ser Lys Glu Pro Met Thr Lys Ala Asp Leu Glu Gln Cys
331             245                 250                 255
333 tgg gac att ccc aac ttc ttc cag ctg ttt tgt aat ttc agt gtc tct    1056
334 Trp Asp Ile Pro Asn Phe Phe Gln Leu Phe Cys Asn Phe Ser Val Ser
335             260                 265                 270
337 att tat gaa agt gtc agt gaa aca att act aag atg ctg aag gca ata    1104
338 Ile Tyr Glu Ser Val Ser Glu Thr Ile Thr Lys Met Leu Lys Ala Ile
339             275                 280                 285
341 gaa gat tta cca aaa caa gac aaa gct cct gac cac gga ggc ctg att    1152
342 Glu Asp Leu Pro Lys Gln Asp Lys Ala Pro Asp His Gly Gly Leu Ile
343         290                 295                 300
345 tca aag atg tta cct ggg cag gac aga gga ctg tgt ggg gaa ctt gac    1200
346 Ser Lys Met Leu Pro Gly Gln Asp Arg Gly Leu Cys Gly Glu Leu Asp
347 305                 310                 315                 320
349 cag aat ttg tca aga tgt ttc aaa ttt cat gaa aaa tgc caa aaa tgt    1248
350 Gln Asn Leu Ser Arg Cys Phe Lys Phe His Glu Lys Cys Gln Lys Cys
351             325                 330                 335
353 cag gct cac cta tct gaa gac tgt cct gat gta cct gct ctg cac aca    1296
```

```
354 Gln Ala His Leu Ser Glu Asp Cys Pro Asp Val Pro Ala Leu His Thr
355             340                 345                 350
357 gaa tta gac gag gcg atc agg ttg gtc aat gta tcc aat cag cag tat     1344
358 Glu Leu Asp Glu Ala Ile Arg Leu Val Asn Val Ser Asn Gln Gln Tyr
359             355                 360                 365
361 ggc cag att ctc cag atg acc cgg aag cac ttg gag gac acc gcc tat     1392
362 Gly Gln Ile Leu Gln Met Thr Arg Lys His Leu Glu Asp Thr Ala Tyr
363     370                 375                 380
365 ctg gtg gag ·aag atg aga ggg caa ttt ggc tgg gtg tct gaa ctg gca     1440
366 Leu Val Glu Lys Met Arg Gly Gln Phe Gly Trp Val Ser Glu Leu Ala
367 385                 390                 395                 400
369 aac cag gcc cca gaa aca gag atc atc ttt aat tca ata cag gta gtt     1488
370 Asn Gln Ala Pro Glu Thr Glu Ile Ile Phe Asn Ser Ile Gln Val Val
371                 405                 410                 415
374 cca agg att cat gaa gga aat att tcc aaa caa gat gaa aca atg atg     1536
375 Pro Arg Ile His Glu Gly Asn Ile Ser Lys Gln Asp Glu Thr Met Met
376             420                 425                 430
378 aca gac tta agc att ctg cct tcc tct aat ttc aca ctc aag atc cct     1584
379 Thr Asp Leu Ser Ile Leu Pro Ser Ser Asn Phe Thr Leu Lys Ile Pro
380             435                 440                 445
382 ctt gaa gaa agt gct gag agt tct aac ttc att ggc tac gta gtg gca     1632
383 Leu Glu Glu Ser Ala Glu Ser Ser Asn Phe Ile Gly Tyr Val Val Ala
384     450                 455                 460
386 aaa gct cta cag cat ttt aag gaa cat ttt aaa acc tgg taagaagatc     ·1681
387 Lys Ala Leu Gln His Phe Lys Glu His Phe Lys Thr Trp
388 465                 470                 475
390 taatgcatcc tatatccagt aagtagaatt atctcttcat ctgggacctg gaaatcctga   1741
391 aataaaaaag gataatgcaa taaacacagt tgcaggaaag tatgttagct atatactatg   1801
392 aagtactctt agtttactta tgttgaatgg cttagctatt aatactcaaa ttgagttaaa   1861
393 atgaaaattc ctccttaaaa aatcaaacgt aatatgtatt acatttcatg gtacattagt   1921
394 agttctttgt atattgaata aatactaaat caccta                             1957
```

VERIFICATION SUMMARY   DATE: 11/27/2001
PATENT APPLICATION: US/09/722,544   TIME: 13:58:09

Input Set : **A:\7853-224 REVISED SEQUENCE LISTING 11-21.TXT**
Output Set: **N:\CRF3\11212001\I722544.raw**

```
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:262 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:3 differs:1
L:783 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1744 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
```